



Ohio Green Pathways

Ohio Board of Regents

Ohio Environmental Council

Strategic Plan for Higher Education

- The *Strategic Plan for Higher Education* calls for the University System of Ohio to become a stronger driver in Ohio's economic development, and to work toward graduating more students, keeping them in Ohio and attracting more degree holders from out of state.
 - Ohio Board of Regents has entered an unprecedented partnership with the Ohio Environmental Council to develop the University System of Ohio's strategic green workforce development plan called the Ohio Green Pathways Project.
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Green Jobs Definition

- Apollo Alliance, a coalition of industry, labor, and environmental groups describes green collar jobs as those that:
 - pay decent wages and benefits that can support a family.
 - It has to be part of a real career path, with upward mobility.
 - Reduces waste and pollution and benefit the environment.
 - temp jobs and sweatshop jobs don't qualify as green collar jobs.



Constructing Ohio's Green Job Definition

- Energy Efficiency
 - Energy auditing, smart grid, weatherization
- Renewable and Advanced Energy
 - Wind, Solar, Bio, Fuel Cell
- Pollution Mitigation and Cleanup
 - Brownfield remediation, regulatory, deconstruction
- Environmental Conservation and Sustainable Development
 - Sustainable urban development, natural resource management, green construction



Green Pathways Definition

The concept of "green jobs" or a "green collar worker" is new, but the knowledge underlying these jobs is not. Green workers are engineers, building contractors, steelworkers, chemists, etc. - what distinguishes these careers from traditional careers is not what the individuals in them know, but how they use that knowledge; i.e. to solve complex economic and governmental service delivery challenges in a way that preserves, sustains, or improves the environment and creates added social value.



Why

In order to meet the demand that is expected in the “green economy” innovative projects must be developed.

The “green economy” will require a new way of thinking towards conventional degrees and employment.

New and unexpected demand for jobs. The University System of Ohio needs to be prepared to adjust to demand as a result of federal or state legislation.

There will be a strong competitive market between states.

Increasing Demand

- Governor Strickland announced his “Building Ohio Jobs” proposal in the February 2008 State of the State Address
 - Federal Stimulus - \$500 million in competitive energy and renewable energy workforce development programs
 - Student Interest
 - Senate Bill 221
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Goals

- ❑ Establish Ohio as the green industry leader.
 - ❑ Expand access to affordable and clear pathways to careers in Ohio, increasing the number of graduates and attracting more degree holders from out of state.
 - ❑ Develop the University System of Ohio capacity to produce the green collar workforce.
 - ❑ Build and market Ohio's green job pathways as an economic development tool that will:
 - ❑ Help businesses find quality employees
 - ❑ Attract businesses to Ohio
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Key Objectives

- **Program Database & Website:** Develop and organize a database of carefully linked green programs in the University System of Ohio and identify and organize current best practices in green education and training programs in Ohio and around the country. Develop an online tool using the database that will help potential students find their pathway.
- **Advisory Panel:** Establish a Green Industry Advisory Panel consisting of business leaders, industry leaders, higher education institutions, and state agencies that will support the Ohio Green Pathways and help ensure the needs of the community are being met.
- **Expanded Educational Opportunities:** Furthermore, using the report as guidance, the OBOR can work in collaboration with the Ohio Department of Development (ODOD) to develop and expand workforce training at the USO's adult career – technical education centers and two-year institutions to meet the immediate workforce demand. Additionally, the OBOR will work with key partners to expand access to affordable and clear pathways to careers in Ohio and develop the USO capacity to produce the green collar workforce.
- **Implementation and Communications:** The OBOR will work with the Ohio Environmental Council to market the Ohio Green Pathways, identify trends and new opportunities, and program implementation.

Deliverables to Institutions

- Promote existing programs and encourage enrollment
- Showcase “Green” programs
- Potentially help bring funding for scholarships and program development

Example of a conventional degree turned “green”

- The Industrial Assessment Center at the University of Dayton: <http://www.engr.udayton.edu/udiac/>
 - Traditional Program Components
 - Engineering
 - Manufacturing processes
 - Energy management
 - Unique Attributes
 - Complete focus on energy savings
 - Hands-on experience with actual assessment and savings projects
 - Results:
 - Average Ohio manufacturing partner saves \$100,000.00 per year in energy costs.
 - Near 100% job placement success – start up companies formed and growing.

Long-term Objectives

- Expand and develop Green Pathways
 - Programs
 - Rating system: salary, demand, ease of transferability, affordability
- Expand Ohio Green Pathways to other Department of Development targeted industries.
- Foster collaborations between campuses.
- Develop and further the connection between k-12 and higher education.
- Foster “green” research and innovation.
- Build relationships between the OBOR and the business community.



Project Partners

- Ohio Board of Regents
 - Ohio Environmental Council
 - Ohio Department of Development
 - Ohio Department of Job and Family Services
 - University System of Ohio
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Necessary Collaboration

- “...many of the occupations in green industries are not listed as such in the Bureau of Labor Statistics standard occupational codes (SOC), adding to the difficulty of understanding job growth and industry needs. As a result, community colleges may find it beneficial to collaborate with workforce and economic development entities that may be able to customize local labor market information, survey regional employers, or develop industry-specific economic impact models that highlight major investments in these industries in the region.”
 - Going Green Report
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Ohio Green Pathways Survey

- To move the project forward we will need to develop an understanding of the academic programs at each institution.
 - We are proposing a survey using SOC codes
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Examples

[Montana Green Campus](#)

[Connecticut Community Colleges](#)

[Department of Labor: Career Voyages](#)

[Pathways To College Network](#)

[State of Washington – Workforce Explorer](#)

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What's New?

MSU offers new degree program in sustainable food
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Montana's Green initiatives

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Feedback

- How can we make this better?
 - How can we add value to your work?
 - Comments/Suggestions/Questions?
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